

ORGANIC ELECTROLUMINESCENT ELEMENT

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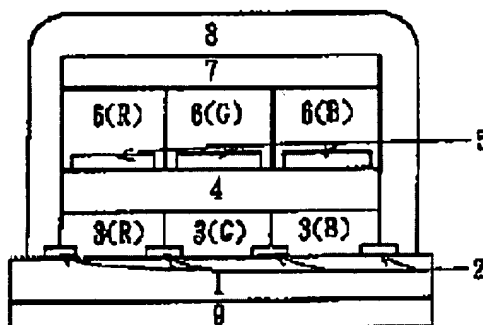
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Abstract of JP8321380

PURPOSE: To alleviate the photo-fatigue of an element material for extending the service life thereof, and allow full-color display by fitting a color filter to a transparent electrode used at least as one of electrodes clamping an organic thin film as a pair. **CONSTITUTION:**

Regarding the organic EL element where an organic thin film 6 is clamped between electrodes 5 and 7 as a pair and at least one of the electrodes 5 and 7 is a transparent electrode, color filters 3 of red R, green G and blue B corresponding to the luminous color types of the film 6 are provided on the transparent electrode 5 as a light emission plane. As a result, external light of such wavelength as exciting each of three types of thin films 6 is absorbed with respective filters 3, and does not reach the films 6. Thus, each film 6 is protected against excitation due to the external light, and the photo-fatigue of the film 6 is alleviated. On the other hand, luminous light is allowed to pass the filters 3.

Furthermore, the electrodes 5 and 7 are X-Y matrix type, and the color filters 3 are provided at the picture element section of the transparent electrode 5, so as to correspond to a luminous picture element, thereby ensuring full-color display. In this case, a black matrix 2 is preferably laid on the periphery of each picture element of the filters 3.



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